

The banner features a colorful geometric background with various shades of blue, green, yellow, and red. On the left, there is a white silhouette of a building with a tower. On the right, there is a white graphic of interlocking gears.

Wonca Italia
International Conference

Lecce, 28-30 September 2017

**Preventing overmedicalization by listening
and sharing
Overmedicization and Quaternary Prevention**

Thiroid Cancer Epidemic

Lecce - Italy

*ERNESTO MOLA
NETWORK WONCA ITALIA*

WHO 2015 International Workshop in Seoul
*Use of CT in Asymptomatic People for
Individual Health Assessment (IHA)*






Presentation of
Hyeong Sik Ahn, MD, PhD
Korea University School of Medicine

Korean Health Care System; Private Dominant, Fee for Service. Competition by Higher Technology



National cancer screening program

Screening Recommendation

Cancer	Eligible	Frequency	Test / Procedure
 Stomach	40 & over adults	every 2 yrs	endoscopy or UGI
 Breast	40 & over women	every 2 yrs	mammography & CBE
 Cervix	30 & over women	every 2 yrs	Pap smear
 Liver	* 40 & over high risk group	every 6 mo	sonography & AFP
 Colorectal	50 & over adults	every 1 yr	FOBT → colonoscopy or barium enema

* 40 & over with HBsAg positive or anti-HCV positive or liver cirrhosis

1999 - Add on Screening for Thyroid, Prostate with Inexpensive Charge (30 USD)



The thyroid cancer

Differentiated thyroid cancer

(> 90%) It includes papillary and follicular thyroid cancer, coming from thyroid cells. Not aggressive.

The medullary thyroid cancer

5% out of thyroid cancer. It comes from parafollicular cells which produce calcitonine.

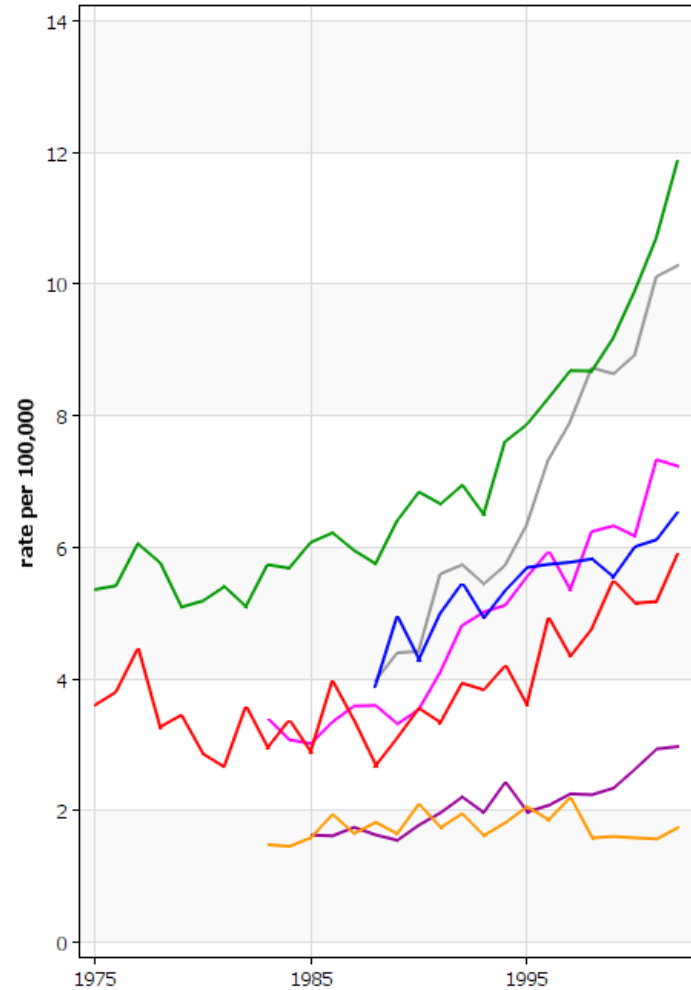
The anaplastic thyroid cancer

<1%. Aggressive. It invades quickly organs and surroundings tissues.

Incidence of Thyroid Cancer ; Worldwide

Female

Male



US(Whites)

France

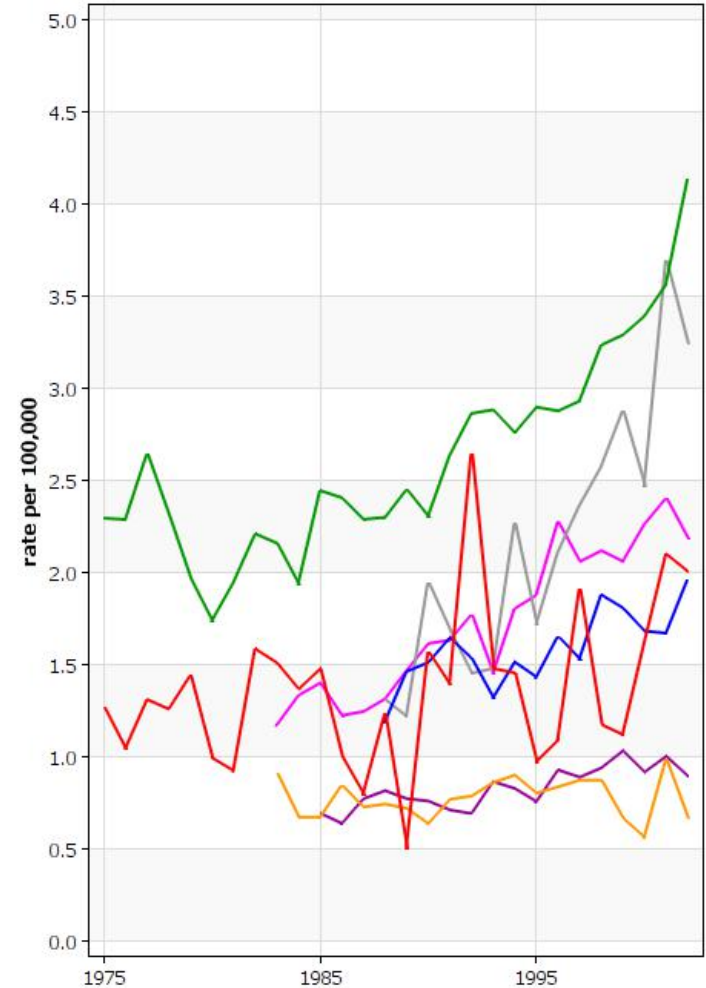
Australia

China

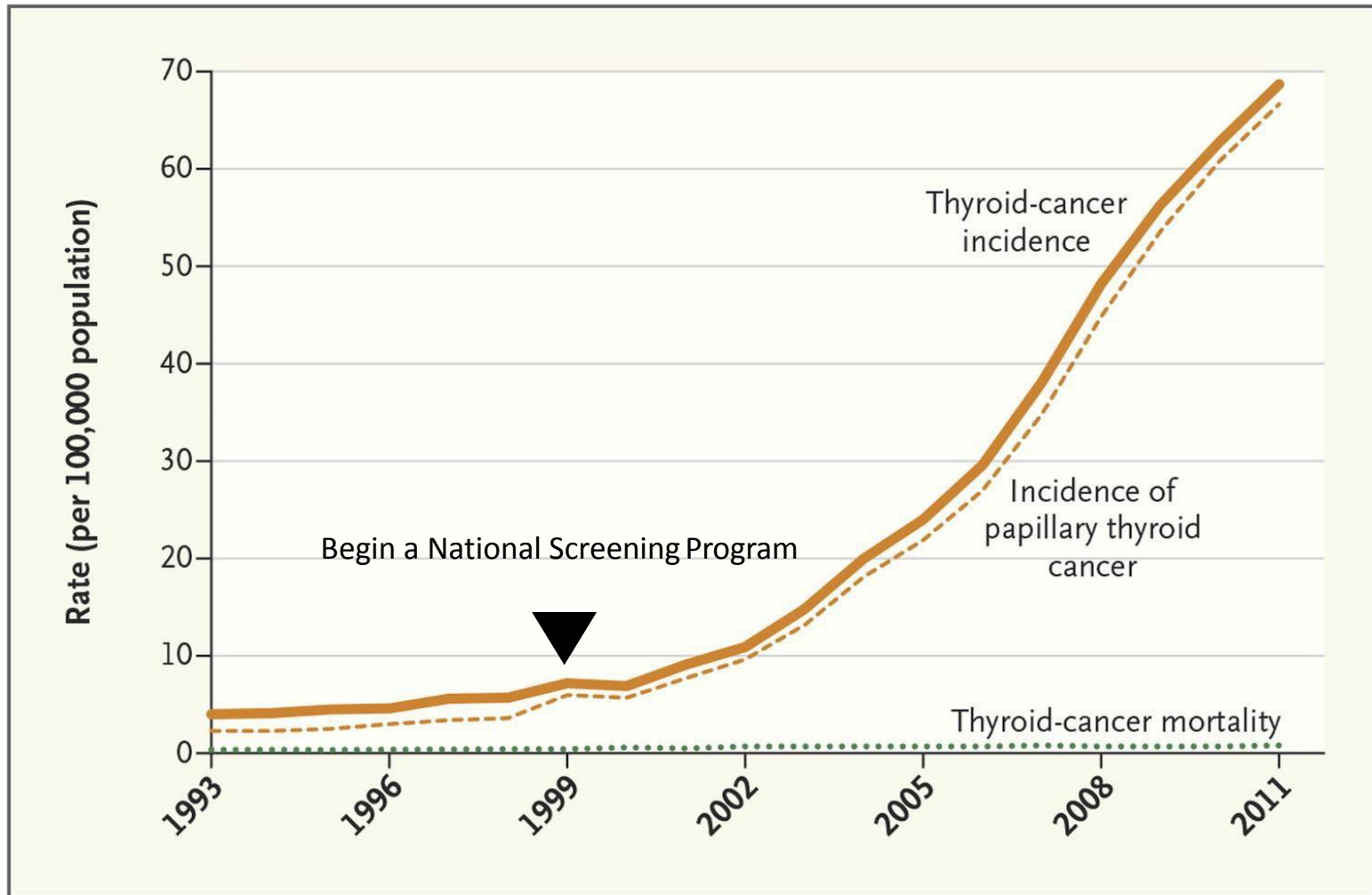
US(Blacks)

UK

India

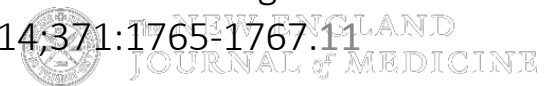


Korea's Thyroid-Cancer “Epidemic”



Ahn HS et al. N Engl J Med

2014;371:1765-1767.11

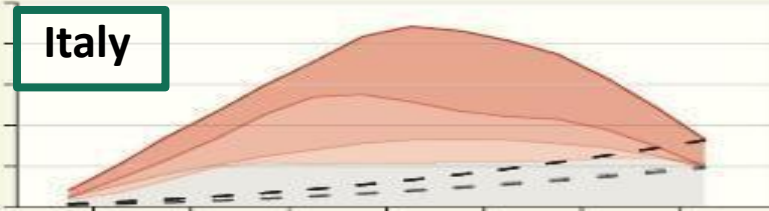


Worldwide Thyroid-Cancer Epidemic? - NEJM 2016

United States



Italy



France



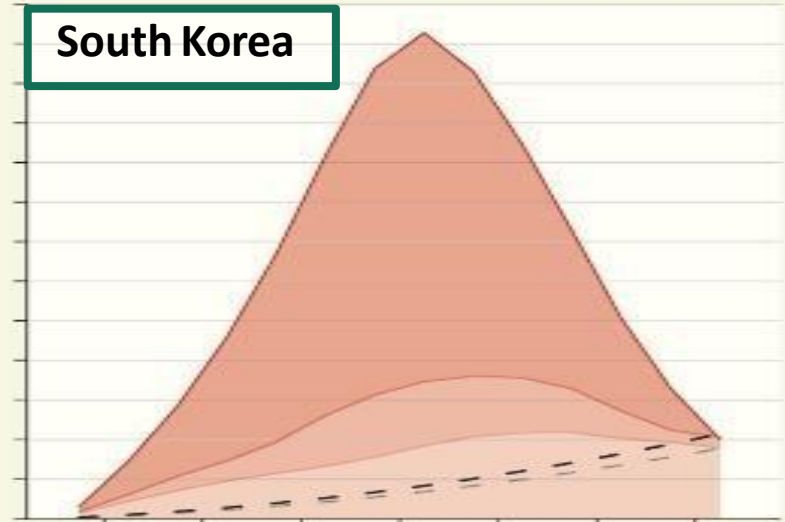
England & Scotland



Nordic Countries



South Korea



Japan



Australia

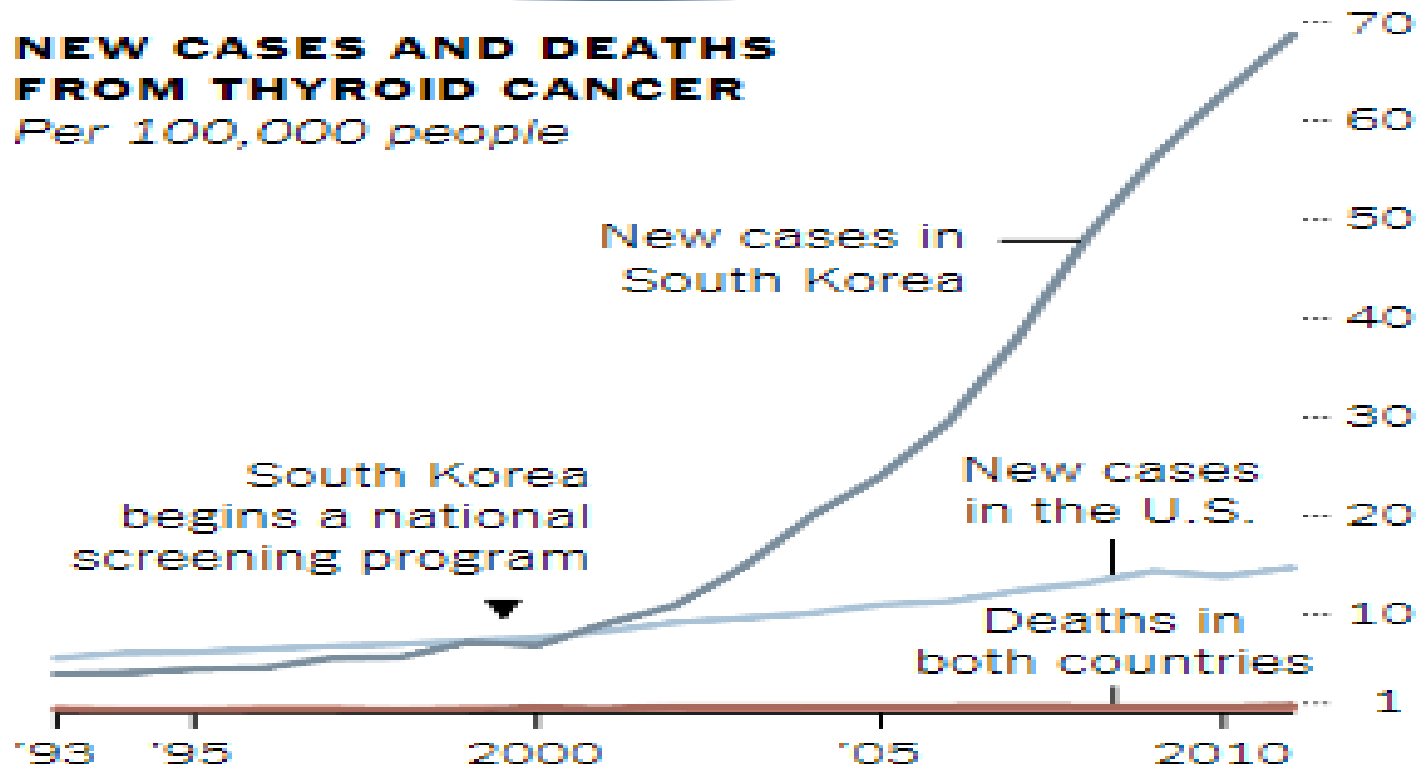


Screening for Thyroid Cancer

Since South Korea adopted widespread cancer screening in 1999, thyroid cancer has become the most diagnosed cancer in the country. But if this early detection were saving lives, the already-low death rate from thyroid cancer should have fallen, not remained steady.

NEW CASES AND DEATHS FROM THYROID CANCER

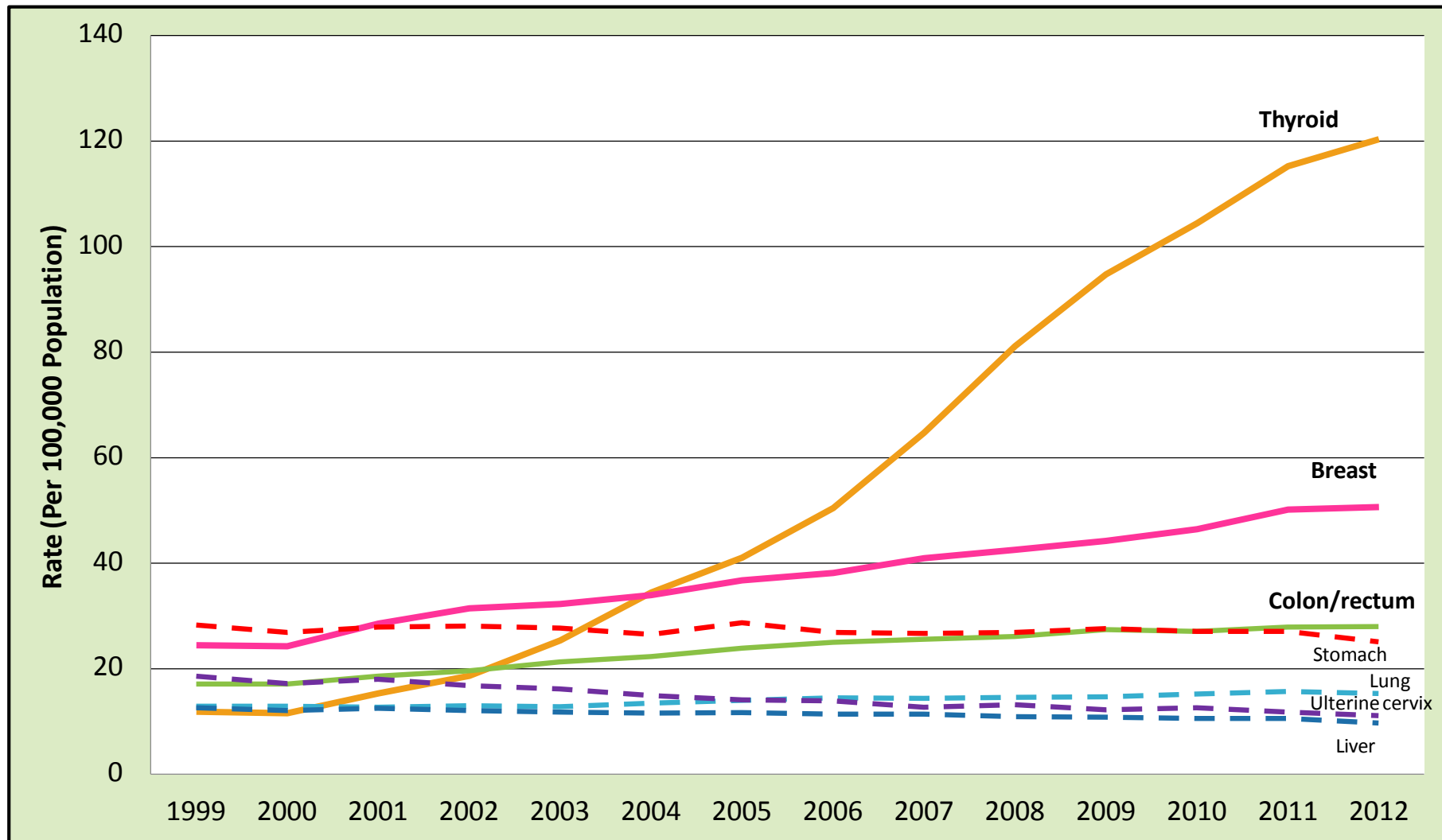
Per 100,000 people



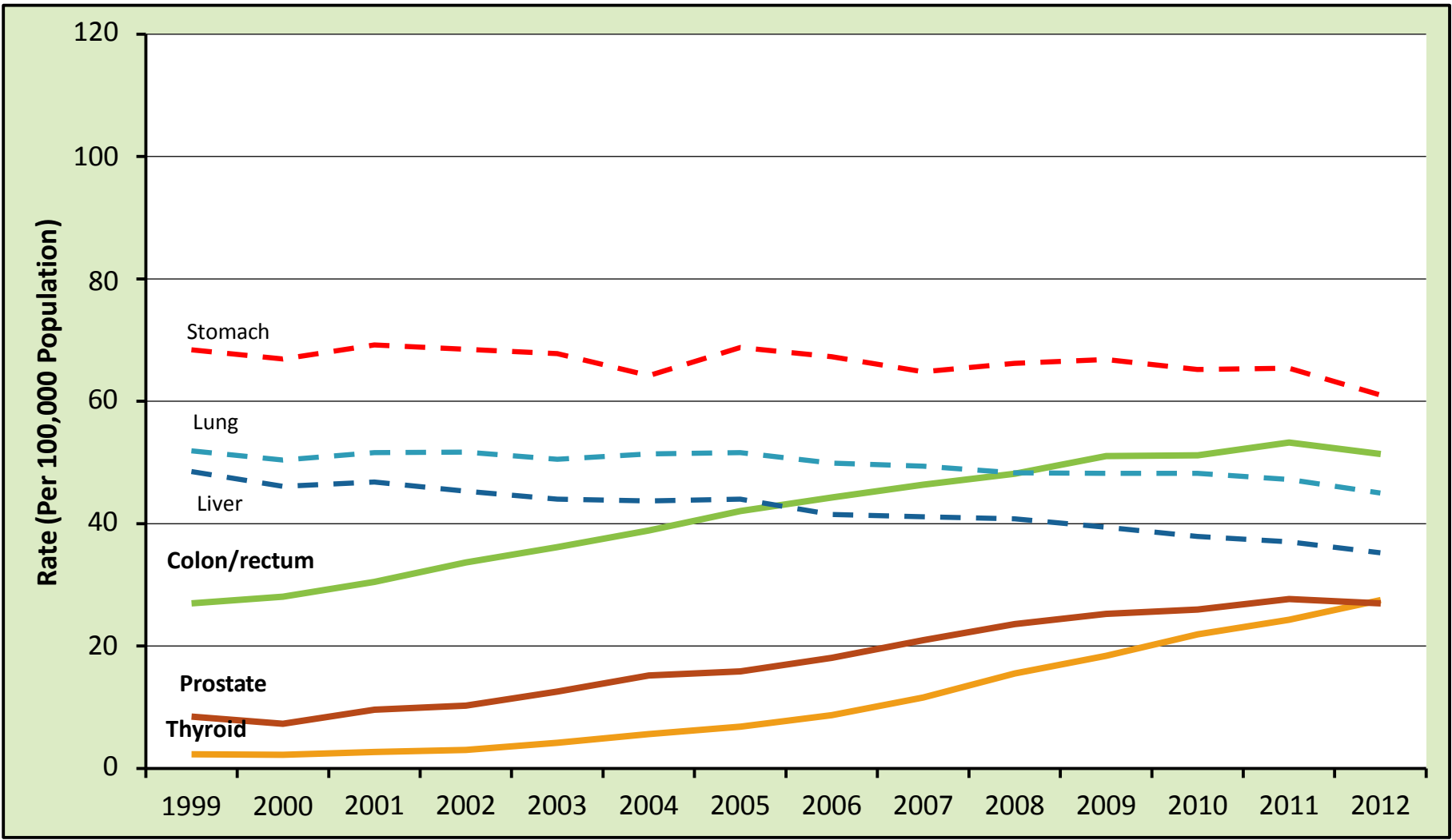
Sources: New England Journal of Medicine; National Cancer Institute

By The New York Times

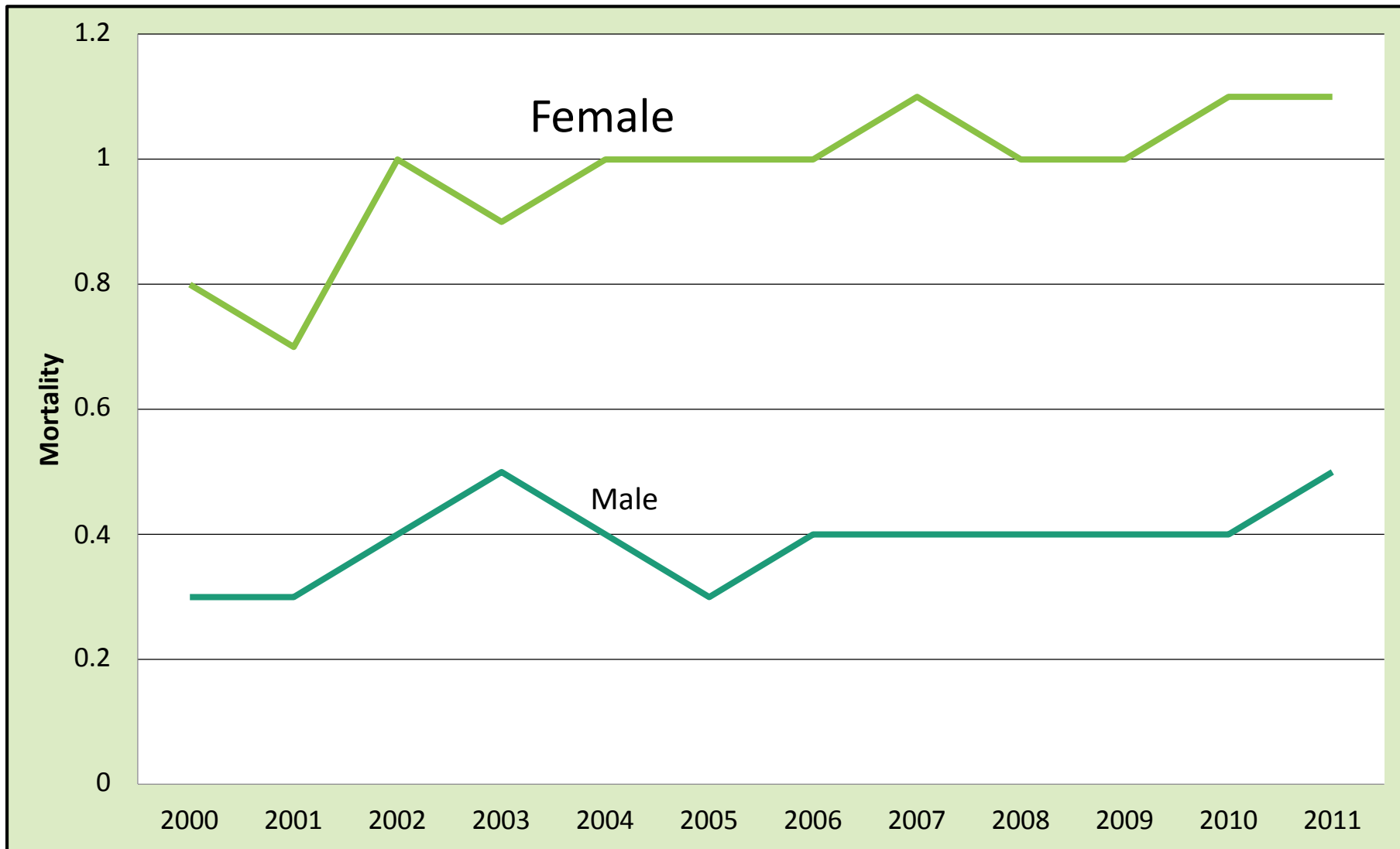
Trend in Age-standardized Incidence Rates of Cancer (Female)



Trend in Age-standardized Incidence Rates of Cancer (Male)



Thyroid Cancer Mortality_Years(2000~2011)



Harms ; Thyroid cancer diagnosis and surgery

- diagnosed cases are surgeried
(radical bilateral thyroidectomy, everyday hormone replacement medication)
- Surgical Complication ;
Hypoparathyroidism (10%)
Vocal cord paralysis (2%)
- (Radioactive iodine) ; relationship with leukemia?

Summary; Thyroid Cancer Screening and Incidence in Korea

- Sharply increased thyroid cancer incidence with screening
- No change in cancer related mortality
 - > overdiagnosis
- Thyroid cancer screening are not recommended to general public
- When studying on thyroid cancer epidemiology, 'screening effect' should be considered.

Preve

Overme

Lecce - Italy

GRAND HOTEL TIZIANO
E DEI CONGRESSI
LECCE

PREVENIRE L'ECESSO DI CURE
CON L'ASCOLTO E LA CONDIVISIONE



A man with glasses, wearing a dark suit, white shirt, and red tie, stands behind a wooden podium. He is speaking into a microphone. On the podium, there is a laptop and a nameplate that reads "ARMANDO NICOLA".

PREVENIRE L'ECESSO DI CURE
CON L'ASCOLTO E LA CONDIVISIONE



A table covered with a black cloth is positioned behind the speaker. Two black chairs with gold-colored frames are tucked under the table. On the table, there are two white plastic cups and a microphone on a stand. A poster is attached to the table, matching the one on the podium.

